



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

601.3377
Job Sheet 211187



Part No: 601.3377

Job Qty: 20 pcs

Part Name: 93705A146 Socket Head Cap Screw



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 7/8/20

Job Tracking No:

Due Date: 7/17/20

Created By: Jennifer Renwick

Type: Stock

Description:

Note: 601.3377 REV.NC IPP REV:A 20.07.08 NEW ISSUE DD VERF:JFS

Ship Via:

139 Valve

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard Setup Hrs	Run Hrs	Workcenter/Supplier	Sign-off
100	Purchasing <i>McMaster</i>	20 pcs		7/17/20	0.00	0.00	Purchasing - 1	<i>ke</i> JUL 14 2020
	<i>POMBO H6721</i>			<i>x6</i>	<i>x50</i>		Purchasing - 2	
							Purchasing - 3	
110	Packaging 2-1 - Receive - B4B	20 pcs		7/17/20	0.00	0.00	Packaging 2 - 1 - B4B	
							Packaging 2 - 2 - B4B	
							Packaging 2 - 3 - B4B	
							Packaging 2 - 5 - B4B	<i>ke</i> JUL 14 2020
							Packaging 2 - 4 - B4B	
							Packaging 2 - 6 - B4B	
							Packaging 2 - 7 - B4B	
							Packaging 2 - 8 - B4B	
							Packaging 2 - 9 - B4B	
							Packaging 2 - 10 - B4B	
							Packaging 2 - 11 - B4B	
							Packaging 2 - 12 - B4B	
							Packaging 2 - 13 - B4B	
							Packaging 2 - 14 - B4B	
							Packaging 2 - 15 - B4B	
							Packaging 2 - 16 - B4B	
							Packaging 2 - 17 - B4B	
							Packaging 2 - 18 - B4B	
							Packaging 2 - 19 - B4B	
							Packaging 2 - 20 - B4B	
							Packaging 2 - 21 - B4B	
							Packaging 2 - 22 - B4B	
							Packaging 2 - 23 - B4B	
							Packaging 2 - 24 - B4B	
							Packaging 2 - 25 - B4B	
							Packaging 2 - 26 - B4B	
							Packaging 2 - 27 - B4B	
							Packaging 2 - 28 - B4B	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S287726



Part: 601.3377

Job No: 211187

Serial No/Batch: S287726

Revision: REV.NC

Inspector:

Exp Date:

Instructions:

Date: 07/14/20

Plex 7/8/20 2:11 PM Dart.Renwick.Jennifer

					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
					Packaging 2 - 37 - B4B	
120	QC 6	20 pcs	7/17/20	0.00 0.00	QC 6 - 9	
					QC 6 - 68	
					QC 6 - 61	
					QC 6 - 40	
					QC 6 - 81	JUL 14 2020 DAS 40 9-90
					QC 6 - 82	
130	Packaging 3-1 - Stock - B4B	20 pcs 50 Pcs	7/17/20	0.00 0.00	Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B ✓	JUL 15 2020 DAS 80 9-89
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
					Packaging 3 - 37 - B4B	
140	QC 21 - SA	20 pcs 50	7/17/20	0.00 0.00	QC 21 - SA - 21	EA-TBD
					QC 21 - SA - 70	
					QC 21 - SA - 9	JUL 15 2020 DAS 70 9-89
					QC 21 - SA - 77	

Part Op 100 - ISSUE P/O: _____ C OF C IS REQUIRED

Descriptions: 110 - Receive & Inspect for Damage & Mat'l Certs

120 - QC6- All purchased or subcontracted products

130 - Identify as per dwg & Stock EXPIRED DATE _____

140 - QC21- Final Inspection - Work Order Release

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
93705A146	18-8 Stainless Steel Thread-Locking Socket Head Screw, 6-32 Thread Size, 3/8" Long	20 Ea (1 ea)	100-Purchasing	5287725

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	93705A146	20	0	0

Part Specifications

Specifications could not be found.

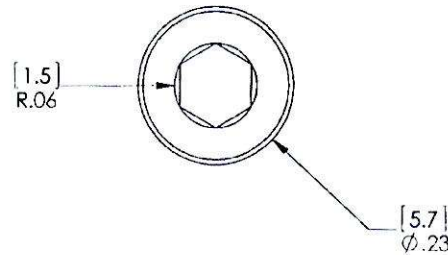
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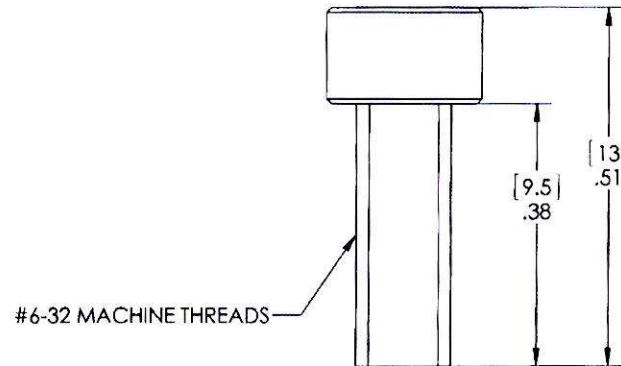
REV	DESCRIPTION	DATE	APPROVED
N/C	INITIAL RELEASE	09-28-11	P. BRAVO

NOTES

1. MAT'L 18-8 STAINLESS STEEL
2. VENDOR: MCMASTER-CARR P/N 93705A146
3. ALL METRIC TOLERANCES +/- 0.1 mm



601.3377



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WORK ORDER
211187

SOURCE CONTROL DRAWING

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QTY	PARTS LIST								
NEXT ASSY (S)	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR OCEANSIDE, CA, 92056-3512 (760)724-5300								
	SOCKET HEAD CAP SCREW (.375in)								
	<table border="1"><tr><td>REV</td><td>CAGE CODE</td><td>DWG. NO.</td><td>REV.</td></tr><tr><td>8</td><td>07M26</td><td>601.3377</td><td>N/C</td></tr></table>	REV	CAGE CODE	DWG. NO.	REV.	8	07M26	601.3377	N/C
REV	CAGE CODE	DWG. NO.	REV.						
8	07M26	601.3377	N/C						
	SCALE: NONE SHEET 1 OF 1								

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐ ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled		FAULT CATEGORY ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB046721



Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

Attention: N/A,

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB046721

PO Date: 7/10/20

Due Date: 7/14/20

**Purchase Order
Revision:**

Revision Date:

Issued By: Guerin, Kimberley
Phone: 613-632-5200 Ext: 298
kguerin@dartaero.com

Via: Ground

Pymt Terms: Net 60

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Drawing	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		7856K75		color black 25 ft	Heat Shrink Tubing Color Black receive pcs	Firmed	-	7/14/20	25 ft	0 ft	25 ft	\$0.8036/ft	\$20.09
2		92949A595		10/pk	SS Button Head Drive Screw	Firmed	-	7/14/20	30 Ea	0 Ea	30 Ea	\$0.493/Ea	\$14.79
3		MT-BRONZE-C63000-R1.000	MT-BRONZE-C63000-R	8203K61 6 FT long	Bronze C63000 Round Bar 1.000" : MAT'L AS PER BRONZE C63000 AS PER ANS 4640 OR ASME SB150 OR ASTM B150 OR SAE J461 OR SAE J463	Firmed	-	7/14/20	6 ft	0 ft	6 ft	\$49.00/ft	\$294.00
4	211207	2030N14			Clamping Handle with Internal Thread, 10-32 size	Firmed	-	7/14/20	8 Ea	0 Ea	8 Ea	\$10.92/Ea	\$87.36
5	211174	9560K38		50/pk	Backup Ring	Firmed	-	7/14/20	50 Ea	0 Ea	50 Ea	\$0.1872/Ea	\$9.36

Plex 7/10/20 11:44 AM Dart.Guerin.Kimberley



Dart Aerospace Ltd.
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Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER POHB046721



Items

Line Item	Job	Part	Drawing	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
6	211187	93705A146		50/pk	18-8 Stainless Steel Thread-Locking Socket Head Screw, 6-32 Thread Size, 3/8" Long	Firmed - XSO		7/14/20	50 Ea	0 Ea	50 Ea	\$0.1168/Ea	\$5.84

Grand Total: \$431.44

Order Notes

Procurement Quality Clauses
 A005 RIGHT OF ENTRY
 A016 PERSONNEL QUALIFICATION
 A026 CERTIFICATION OF MATERIAL CONFORMANCE
 A032 DOCUMENT SPECIAL REQUIREMENTS
 A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
 A040 NOTIFICATION OF QUALITY ESCAPE
 A041 QUALITY MANAGEMENT SYSTEM
 A042 DART NOTIFICATION BY SUPPLIER
 A043 RETENTION OF QUALITY DOCUMENTS

 A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
 A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

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McMASTER-CARR®

Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
POHB046721
Order Placed By
Kim

McMaster-Carr Number
7883015-02

Page 1 of 1
07/10/2020

Line	Product	Ordered	Shipped
1	7856K751 Heat-Shrink Tubing, 25 Feet Long, 0.25" ID Before Shrinking, Black	1 Each	1
2	92949A595 18-8 Stainless Steel Button Head Hex Drive Screw, 5/16"-24 Thread Size, 3/8" Long, Packs of 10	3 Packs	3
4	2030N14 Clamping Handle with Internal Thread, 10-32 Size	8 Each	8
5	9560K38 Ultra-Chemical-Resistant PTFE Backup Rings, 0.053" Wide, for Dash Number 012, Packs of 50	1 Pack	1
6	93705A146 18-8 Stainless Steel Thread-Locking Socket Head Screw, 6-32 Thread Size, 3/8" Long, Packs of 50	1 Pack	1

Shipped separately from our Chicago warehouse on 07/10

3 8203K61 High-Strength 630 Bronze, 1" Diameter, 6 Feet Long

1
Each 1

Certificate of compliance

This is to certify that the above items were supplied in accordance with the description and as illustrated in the catalog. Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

Sarah Weinberg

Sarah Weinberg
Compliance Manager

1-Box
Puro # CPK007917949

RECEIVED
JUL 1 2020
DART AEROSPACE LTD.

ME

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: 211187 Part No. 601.3377		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☒		DEPARTMENT/PROCESS Skid-tube ☐ Cross tube ☐ Eng. (Non-AW) ☐ Engineering ☒ Machining ☐ Small Fab ☐ Prod. Eng. Coord. ☐ Water Jet ☐ Large Fab ☐ Finishing ☐ Rec/Store/Packaging ☐ Supplier ☐ Quality ☒																															
Date: SEP 03 2020		Sequence #: QC 6		QTY Affected: 50 PCS 49 PCS		DRS (QSI042) 51 9-89 26/09/10																													
Description Work Order Deviation				Disposition																															
DURING INSPECTION IT WAS FOUND THAT THE DIMENSION OF THE SCREW IS OUT OF TOLERANCE: 0.51 +/- .010 is 0.496 0.38 +/- .010 is 0.365 HEAD HEIGHT: 0.136				A shank length of 0.365 is acceptable. PER ASME B18.3, the tolerance is $0.375^{+0.000}_{-0.030}$ The measured OAL of 0.496 should not be inspected. Instead, use the head height with a tolerance of 0.134-0.138 (PER ASME B18.3)																															
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☒ Product Improvement ☐ Process Improvement ☐ Human Factors ☐				FAULT CATEGORY <table border="0"> <tr> <td>☐ Pressure/Forced</td> <td>☐ Contamination</td> <td>☐ Power Loss/Surge</td> <td>☐ Positioned Wrong</td> </tr> <tr> <td>☐ Bending</td> <td>☐ Misaligned/off center</td> <td>☐ Folio/Program</td> <td>☒ Outside Tolerance</td> </tr> <tr> <td>☐ Crushing</td> <td>☐ BOM/Route</td> <td>☐ Grain Direction</td> <td>☐ Drawing</td> </tr> <tr> <td>☐ Cracks</td> <td>☐ Broken/Damage/Defect</td> <td>☐ Weld</td> <td>☐ Finish</td> </tr> <tr> <td>☐ Crimp/Kink/Ripple/Wave/Twist</td> <td>☐ Incomplete/Unclear Instructions</td> <td>☐ Wrong Stock Pulled</td> <td>☐ Part Lost/Missing</td> </tr> <tr> <td>☐ Marks/Chatter</td> <td>☐ Drill Holes</td> <td>☐ Out of Sequence</td> <td>☐ Misread</td> </tr> <tr> <td>☐ Mislabeled</td> <td>☐ Fit/Function</td> <td>☐ Off-set/Set-up</td> <td></td> </tr> </table>				☐ Pressure/Forced	☐ Contamination	☐ Power Loss/Surge	☐ Positioned Wrong	☐ Bending	☐ Misaligned/off center	☐ Folio/Program	☒ Outside Tolerance	☐ Crushing	☐ BOM/Route	☐ Grain Direction	☐ Drawing	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Finish	☐ Crimp/Kink/Ripple/Wave/Twist	☐ Incomplete/Unclear Instructions	☐ Wrong Stock Pulled	☐ Part Lost/Missing	☐ Marks/Chatter	☐ Drill Holes	☐ Out of Sequence	☐ Misread	☐ Mislabeled	☐ Fit/Function	☐ Off-set/Set-up	
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Other/Details:																																			



DART
AEROSPACE

Route update only

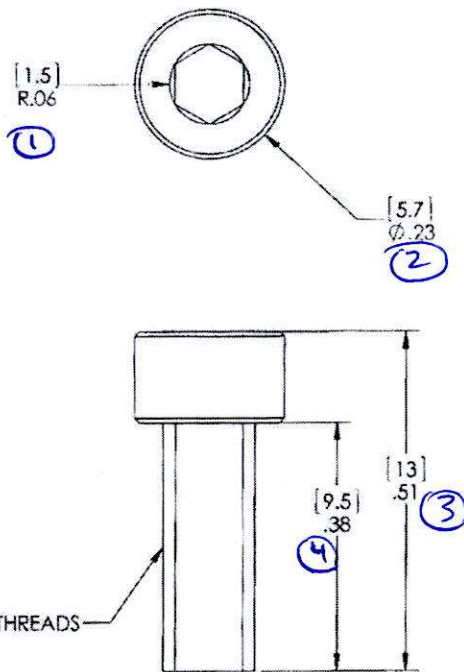
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NOTES

1. MAT'L 18-8 STAINLESS STEEL (6)
2. VENDOR: MCMASTER-CARR P/N 93705A146
3. ALL METRIC TOLERANCES +/- 0.1 mm



601.3377

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QTY	DATE	PARTS LIST
NEXT ASSY (S)	ORIGINAL DATE APPROVALS DRAWN BY CHECKED BY DESIGNED BY ENGINEER CONTROLLED BY	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANGIDE, CA. 92056-3512 (760)724-5300 SOCKET HEAD CAP SCREW (.375in)
	DATE CHANGED REASON FOR CHANGE BY CHECKED BY	SHEET 1 OF 1



18-8 Stainless Steel Thread-Locking Socket Head Screw

6-32 Thread Size, 3/8" Long

\$5.84 per pack of 50
93705A146

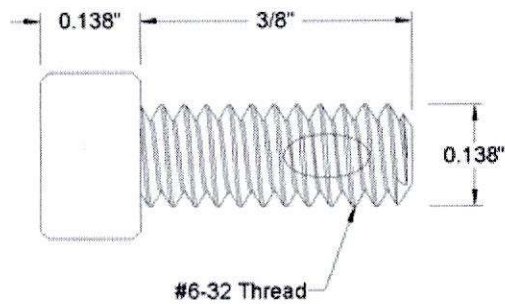
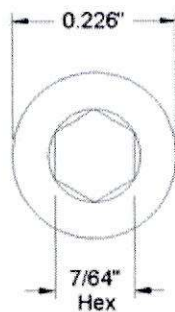


Thread Size	6-32
Length	3/8"
Threading	Fully Threaded
Thread Spacing	Coarse
Head	
Diameter	0.226"
Height	0.138"
Drive Size	7/64"
Hardness	Rockwell B70
Tensile Strength	70,000 psi
Screw Size Decimal	
Equivalent	0.138"
Thread Type	UNC
Thread Fit	Class 3A
Thread Direction	Right Hand
Head Type	Socket
Socket Head Profile	Standard
Drive Style	Hex
Locking Type	Thread Locker
Thread Locker Type	Nylon Patch
Thread Locker Temperature Range	-70° to 250° F
Specifications Met	ASME B18.3
System of Measurement	Inch
Material	18-8 Stainless Steel
RoHS	RoHS 3 (2015/863/EU) Compliant
REACH	REACH (EC 1907/2006) (06/25/2020, 209 SVHC) Compliant
DFARS	Not Specialty Metals Compliant
Country of Origin	Taiwan

Made from 18-8 stainless steel, these screws have good chemical resistance and may be mildly magnetic. A thread locker bonded to the threads adds friction to resist loosening from vibration. Dimensions meet ASME B18.3 or ISO 4762 (formerly DIN 912) specifications. Length is measured from under the head.

Screws with a nylon patch are reusable, but their holding power lessens with each use.

Coarse threads are the industry standard; choose these screws if you don't know the pitch or the threads per inch.



McMASTER-CARR CAD
<http://www.mcmaster.com>
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PART
NUMBER **93705A146**
Thread-Locking Stainless Steel
Socket Head Cap Screw

The information in this 3-D model is provided for reference only.

